

2017 Annual Report
amfAR, The Foundation for AIDS Research

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amfAR, The Foundation for AIDS Research, is dedicated to ending the global AIDS epidemic through innovative research.



amfAR CEO Kevin Robert Frost (right) moderates a panel discussion at the amfAR HIV Cure Summit.

## Research

#### Countdown to a Cure for AIDS

In 2015, amfAR announced a \$100 million investment strategy to support its Countdown to a Cure for AIDS initiative, which is aimed at developing the scientific basis for a cure by 2020. The strategy represents an unprecedented expansion of amfAR's grant making and is designed to provide support to any scientist or team of investigators for any research idea with the potential to advance the search for a cure, at any stage of its development.

amfAR has since awarded 58 Countdown grants totaling more than \$41 million to support research conducted by 222 scientists working at 74 institutions in 10 countries. Structured to provide sustained support for a wide range of studies that advance both emerging and established ideas, the strategy comprises the following components:

- ▶ The amfAR Institute for HIV Cure Research, established in 2016 with a \$20 million grant over five years to the University of California, San Francisco (UCSF), is the cornerstone of amfAR's cure research efforts.
- ▶ Innovation Grants, two-year awards of up to \$200,000 each, enable researchers to test innovative ideas supported by limited preliminary data.
- ▶ Impact Grants of up to \$2 million each over four years support the in-depth development of concepts already underpinned by preliminary data showing genuine potential for achieving a cure.
- ▶ Investment Grants are aimed at recruiting the experience and expertise of scientists from outside the field of HIV. These \$1 million grants are awarded over a four-year period. Grantees may have expertise in fields such as cancer, neuroscience, or inflammatory disease that can directly inform efforts to cure HIV.

- ▶ ARCHE, the amfAR Research Consortium on HIV Eradication, was launched in 2010. It supports collaborative teams of scientists in the U.S. and around the world working on a range of HIV cure strategies.
- ➤ The Opportunity Fund is a funding mechanism that enables amfAR to respond quickly to emerging and unforeseen research opportunities.

## **HIV Cure Summit**

In December 2016, amfAR held its third annual HIV Cure Summit at UCSF. Leading amfAR-funded cure researchers detailed their progress and discussed the scientific challenges that continue to stand in the way of a cure. Drs. Peter Hunt, Warner Greene, Satish Pillai, and Steve Deeks reported on their efforts to pinpoint and

amfAR grantee Dr. Benjamin Burwitz of Oregon Health and Science University

measure the size of latent HIV reservoirs; shock the virus out of hiding so it can be killed; and test interventions developed by Institute researchers in clinical trials.

#### **Innovation Grants**

In July 2017, amfAR awarded \$1.2 million in Innovation grants to six researchers exploring mechanisms of HIV persistence and the potential for viral eradication. Among the grantees were Dr. Joshua Schiffer, from Fred Hutchinson Cancer Research

Center in Seattle, who is testing a drug normally used to prevent organ transplant rejection for its potential to eliminate the reservoir completely; Drs. Andrew Henderson, from Boston University School of Medicine, and Fabio Romerio, from the University of Maryland in Baltimore, who are exploring a cure strategy known as "block and lock," which aims to silence HIV and prevent its re-emergence when therapy is stopped; and Dr. Benjamin Burwitz, from Oregon Health and Science University in Portland, who plans to generate a monkey model lacking the protein CCR5, the primary means by which most types of HIV infect cells.

#### **Investment Grants**

In February 2017, amfAR announced a new round of Investment grants totaling \$1.2 million to support six research projects that enlist the help of bioengineers to eradicate the main barrier to a cure: latent HIV reservoirs. One pair of researchers—Dr. Timothy Henrich, of UCSF and the amfAR Institute for HIV Cure Research, and bioengineer Dr. Utkan Demirci from Stanford—aim to apply magnetic levitation of single cells to identify and characterize HIV reservoirs. Another team—Drs. Hui Zhang and Weiming Yang of Johns Hopkins University in Baltimore—is using mass spectrometry to identify molecules on the surface of cells that differentiate latent reservoirs from uninfected cells. And a third—Drs. Priti Kumar and Mark Saltzman of Yale University in New Haven, CT—is exploring a novel gene-editing approach using a cell's machinery to eliminate HIV reservoirs.



amfAR grantee Dr. Weiming Yang of Johns Hopkins University

# ARCHE (amfAR Research Consortium on HIV Eradication)

In July 2017, amfAR awarded more than \$2.3 million in ARCHE grants to seven teams of researchers (see page 7) working on gene therapy-based approaches to curing HIV. The researchers are pursuing projects such as: designing and refining vectors that can accurately target HIV reservoir cells; using CAR T cells, which have shown remarkable promise in curing cancer, to kill HIV-infected cells; and using viral and non-viral delivery mechanisms to deliver genetic scissors to cut the virus out of human DNA.

## Mathilde Krim Fellowships

In October 2016, amfAR announced the recipients of the Mathilde Krim Fellowships in Basic Biomedical Research, which support bright young scientists seeking innovative solutions to HIV/AIDS. The six Krim Fellows were each awarded approximately \$150,000 over two years.

#### **Published Research**

Research studies make the greatest impact on the HIV field and on the broader scientific community when they are published in scientific journals. In FY2017, 52 scientific publications resulted from amfAR-funded research.

#### **Think Tanks**

In October 2016, amfAR hosted a think tank in Lisbon, Portugal, titled, "Progress Report: Research toward a Cure for AIDS in the context of IciStem." IciStem is a consortium of 17 European researchers that aims to replicate the case of "the Berlin patient," who remains the only person known to have been cured of HIV. It was created and is funded by amfAR through its Countdown to a Cure for AIDS initiative.

amfAR hosted another think tank in April 2017 in Palo Alto, CA, on strategies to identify latently infected cells. The researchers discussed finding a biomarker for these cells as an alternative approach to "shock and kill." One of the biggest challenges with the "shock-and-kill" strategy is that current drug regimens do not reawaken all of the infected cells.

#### **HIV Research Summit in Brazil**

In March 2017, amfAR hosted an HIV research summit at the University of São Paulo, bringing together 250 community members, medical students, healthcare professionals, and representatives from 10 São Paulo-based nongovernmental organizations. The summit was held in conjunction with the Advanced Course on HIV Pathogenesis at the university's School of Medicine.

## **TREAT Asia**

amfAR's TREAT Asia (Therapeutics Research, Education, and AIDS Training in Asia) program is a network of hospitals, clinics, and research institutions working with civil society to ensure the safe and effective delivery of treatments for HIV and its co-infections to adults and children across the Asia-Pacific through research, education, and advocacy of evidence-based HIV-related policies. The TREAT Asia Network encompasses 21 adult and 20 pediatric sites throughout the region, which collaborate on a variety of projects. TREAT Asia scientists produced a record 35 publications in peer-reviewed medical journals in 2017.

## **Gathering Critical Information**

TREAT Asia pioneered the region's first adult observational database for HIV/AIDS—the TREAT Asia HIV Observational Database (TAHOD)—which now includes anonymous data from approximately 9,200 patients at 21 clinical sites in 12 countries. The information gathered in the database informs the development of more effective research and treatment programs and helps define treatment standards specific to HIV/AIDS in Asia. The TAHOD Low-Intensity Transfer (TAHOD-LITE) database, an extension of TAHOD, contains data from over 37,000 HIV-positive patients across 10 TREAT Asia network sites. It aims to increase the scope of adult data collection by gathering a subset of core variables from the entire cohort of HIV-infected patients who have sought care at selected TAHOD sites.

#### A Global Collaboration

Since 2006, TREAT Asia has managed the Asia-Pacific section of the International epidemiology Databases to Evaluate AIDS (IeDEA), a global collaboration established by the U.S. National Institute of Allergy and Infectious Diseases. In FY2017, the IeDEA consortium funded the second year of STAY (Study of Transitioning Asian Youth), which aims to document the experience of HIV-infected young adults transitioning from pediatric to adult care.

## Improving Care for Children

The TREAT Asia Pediatric HIV Observational Database (TApHOD) is a regional pediatric HIV study set up by TREAT Asia in 2006. It was modeled after the adult database and includes data from more than 6,400 children and adolescents at 19 clinical sites in Cambodia, India, Indonesia, Malaysia, Thailand, and Vietnam.

## **Addressing Adolescent Mental Health**

In January 2017, TREAT Asia organized a think tank in Bangkok on adolescent mental health, bringing together regional investigators and youth advocates from Cambodia, Indonesia, Malaysia, Thailand, and Vietnam to discuss gaps in research and clinical training. As a result of the discussion, TREAT Asia is evaluating the prevalence of mental health disorders among HIV-positive adolescents in the



Volunteers at the Love Yourself organization, which is co-leading "Project PrEPPY" in the Philippines

region and developing trainings for pediatric HIV providers. TREAT Asia hosted the first such training in June 2017 in Bangkok to help clinicians better diagnose and manage mental health disorders in adolescents living with HIV. The workshop included more than 30 clinical and mental health professionals who work with HIV-positive youth in Thailand, Cambodia, Indonesia, and Malaysia. Participants reviewed the epidemiology of adolescent mental health issues and discussed mental health needs among youth living with HIV, psychopharmacology, and suicide risk assessment tools.

## **Empowering Youth Advocates**

The first class of TREAT Asia's Youth ACATA—Asia Community for AIDS Treatment and Advocacy—held its final workshop in June 2017 in Bangkok, where eight young people living with HIV from Cambodia, Indonesia, and Thailand graduated from the two-year leadership training program. Launched in 2015 with support from ViiV Healthcare's Positive Action for Adolescents program, Youth ACATA aims to educate participants about HIV and antiretroviral therapy and connect them to other HIV-positive youth in the region.

### **Helping Adolescents Transition to Adult Care**

TREAT Asia continued working to help adolescents living with HIV transition to adult care. With funding from AIDS Life Austria, the program provided a grant to the Children and Youth Program of SEARCH (South East Asia Research Collaboration on HIV) at the Thai Red Cross AIDS Research Centre in Bangkok to implement a transition model that focuses on issues such as moving to adult care, coping with negative emotions, treatment, and stigma.

## **Advocating for Co-Infection Treatment Access**

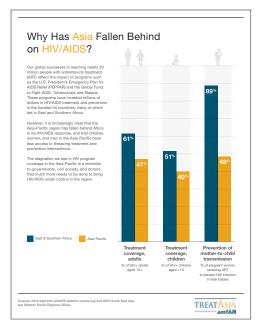
In June 2017, TREAT Asia held its annual regional advocacy meeting on hepatitis C, HIV, and tuberculosis treatment in Bangkok, with civil society organizations, clinical care professionals, and intellectual property experts. During the year, TREAT Asia also attended and presented at several conferences on hepatitis C treatment access and partnered with civil society groups and funders on advocacy efforts.

#### Introducing PrEP to the Philippines

Enrollment began in July 2017 for a two-year pilot project that introduced antiretroviral pre-exposure prophylaxis (PrEP) to the Philippines in an effort to curb the rapid spread of HIV infection among men who have sex with men (MSM) and transgender individuals. The project, known as PrEPPY (PrEP Pilipinas), is evaluating community-based, peer-driven delivery of PrEP at two clinics in Manila. amfAR is among several organizations involved in Project PrEPPY, a multiagency collaboration with experts from government, academia, and multilateral and nongovernmental organizations.

## **Special Reports**

In September 2017, TREAT Asia created the first in a series of infographics titled *Why Has Asia Fallen Behind on HIV/AIDS?* to illustrate the stagnation in HIV program coverage in the



The first in a series of three infographics showing the need for greater progress on HIV/AIDS in the Asia-Pacific region

Asia-Pacific, and to remind governments, civil society, and donors that much more needs to be done to bring HIV/AIDS under control in the region.

In conjunction with amfAR's Public Policy Office, in November 2016, TREAT Asia produced a report titled Cervical Cancer, Human Papillomavirus (HPV), and HPV Vaccines in Southeast Asia: Key Considerations for Expanding Vaccine Coverage

and Improving Population Health. The report documents the slow uptake of HPV vaccination in the region and gives recommendations for increasing use of the vaccine. Also with the Public Policy Office, in March 2017, TREAT Asia published the fact sheet PrEP Acceptability Among Female Sex Workers in Thailand: Key Research Findings, based on a study jointly conducted by the Institute for Population and Social Research at Mahidol University in Bangkok, Johns Hopkins Bloomberg School of Public Health in Baltimore, and the community-based organization Service Workers in Group (SWING) Foundation.

## **Public Policy**

Informed by thorough research and analysis, amfAR is a highly respected advocate of rational and compassionate AIDS-related public policy. Through its Public Policy Office in Washington, DC, amfAR educates policymakers, the media, and the public about evidence-based policies to address HIV/AIDS in the U.S. and around the world.

## **Ending the Domestic HIV Epidemic**

In October 2016, amfAR published a report that recommends several measures health plans and healthcare purchasers can take to help end the domestic HIV epidemic. *Curbing the HIV Epidemic by Supporting Effective Engagement in HIV Care: Recommendations for Health Plans and Health Care Purchasers* outlines actionable steps to improve health outcomes, reduce unnecessary spending, and contribute to the development of more integrated systems of care for people living with HIV.

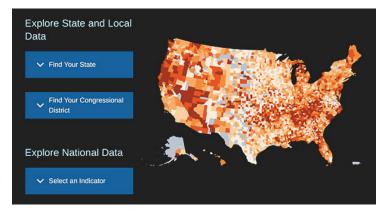
## Capitol Hill Briefing

In June 2017, government officials, scientists, and public health leaders convened at an amfAR Capitol Hill conference titled,

"Making AIDS History: A Roadmap for Ending the Epidemic." The conference highlighted the latest advances in HIV prevention, treatment, and research and addressed the challenges that remain in eradicating the virus. Speakers and panelists discussed the national security implications of epidemics, the economic and health impact of aging with HIV, and the opioid crisis and its relationship to HIV and other infectious diseases.

## **HIV and the Opioid Epidemic**

Also in June 2017, amfAR launched a comprehensive online database to help communities, policymakers, and advocates effectively respond to the opioid epidemic. The Opioid & Health Indicators Database (opioid.amfar.org) provides local and national statistics on HIV and hepatitis C infections, opioid use, overdose death rates, and the availability of services such as drug treatment and syringe services programs. The Foundation also published an issue brief outlining the case for supervised consumption services (SCS), which provide a hygienic space for people to use illicit drugs under the supervision of trained staff.



amfAR's Opioid & Health Indicators database is a comprehensive and invaluable resource for communities, lawmakers, and advocates.

## **Global Health**

In January 2017, amfAR published a report arguing that a cure alone will not end the HIV epidemic, and that only with a coordinated and enduring commitment can any disease be controlled. Using tuberculosis and malaria as examples, *How Cures Can Fail* shows that global efforts to eradicate widespread diseases can fail even when effective cures are available.

In June 2017, amfAR published *Derailing Progress: The Human Impact of the U.S. FY2018 Global Health Budget*, an infographic showing the impact of \$800 million in proposed cuts to the U.S. President's Emergency Plan for AIDS Relief (PEPFAR) and USAID in fiscal year 2018, a 17% decrease. Such a substantial reduction in funding could cause more than a million HIV treatment disruptions for both children and adults, new HIV infections, and 146,000 preventable AIDS-related deaths.

amfAR also published an issue brief outlining the potential impact of President Trump's action reinstating and expanding the Mexico City Policy. The policy has historically prohibited U.S. family planning funding for non-U.S. nongovernmental organizations performing or promoting abortion.

#### In the News

In March 2017, amfAR Senior Policy and Medical Advisor Dr. Susan Blumenthal penned an op-ed for National Women and Girls HIV/AIDS Awareness Day warning of the implications of repealing the Affordable Care Act and limiting access to healthcare. The op-ed was published online on *The Advocate* and *HuffPost*.

In June 2017, Greg Millett, amfAR's vice president and director of public policy, was widely quoted in a *New York Times Magazine* article titled "America's Hidden H.I.V. Epidemic: Why do America's black gay and bisexual men have a higher H.I.V. rate than any country in the world?" The piece focused on Jackson, MS, which has the nation's highest rate of gay and bisexual men (40%) living with HIV.

Also in June, amfAR policy associate Alana Sharp and Dr. Rahul Gupta, public health commissioner and state health officer for West Virginia, published an opinion piece in *The Hill* on the impact of proposed cuts to the CDC and Medicaid affecting efforts to combat the opioid epidemic. West Virginia has the highest drug-related death rate in the country.

#### The GMT Initiative

Since 2007, amfAR has been serving the HIV-related needs of gay men, other men who have sex with men (MSM), and transgender individuals (collectively, GMT) throughout the developing world through its GMT Initiative. Through small, targeted grants to grassroots groups, amfAR has expanded access to HIV education and prevention services; supported advocacy aimed at increasing funding for prevention and treatment services; and worked to end the stigma, discrimination, and violence that threaten the lives of GMT and fuel the spread of HIV/AIDS.

## **Implementation Science Awards**

In FY2017, amfAR's grant making through the GMT Initiative evolved to support larger implementation science projects aimed at identifying barriers to HIV testing, treatment, and care and studying the impact of innovative HIV service delivery models for GMT in low-and middle-income countries. amfAR has awarded \$2.6 million over three years to support three such studies.

- ▶ Dr. Chris Beyrer of Johns Hopkins University is leading a team of researchers and community-based services (in collaboration with the International HIV/AIDS Alliance Myanmar) in evaluating the effectiveness of promising interventions for GMT in Myanmar, where increased HIV testing and treatment opportunities are becoming available. The researchers are assessing the effectiveness of HIV self-testing done in the privacy of one's home, point-of-care CD4 testing, and the use of "peer navigators" familiar with the local health system to help newly diagnosed individuals gain access to HIV treatment and care..
- ▶ In Lima, Peru, Dr. Javier Lama of Asociación Civil Impacta Salud y Educación and his team are aiming to improve the continuum of care among transgender women by using an innovative model that integrates HIV prevention and treatment services with transgender-affirming medical care.



University of Pittsburgh/amfAR HIV Scholars (left to right): Daniel Dutra de Barros, Dr. Antonio Spagnolo, Kabelo Maleke, Adi Nugroho

▶ And in Bangkok, Thailand, Dr. Nittaya Phanuphak and her team at the Thai Red Cross AIDS Research Centre are working to show how innovative technologies such as GMT-targeted websites using online counseling and support can be utilized to increase rates of HIV testing and referrals to prevention and treatment programs.

## amfAR HIV Scholars Program

In December 2016, amfAR and the University of Pittsburgh produced a supplement to the journal *AIDS and Behavior* devoted to the HIV Scholars Program at the university's Center for LGBT Health Research. The program's mission is to support the creation of public health responses to dramatic HIV health disparities among GMT in low- and middle-income countries. The amfAR-funded program has supported research training for 16 young investigators from a wide range of countries, including Pakistan, China, Lebanon, and Belize, among others.

In FY2017, amfAR supported four young HIV Scholars from Paraguay, Brazil, South Africa, and Indonesia undergoing five months of graduate-level public health study at the Center for LGBT Health Research at the University of Pittsburgh Graduate School of Public Health. The current HIV Scholars are Dr. Antonio Spagnolo of the National University of Asunción in Paraguay; Daniel Dutra de Barros of Santa Casa de São Paulo School of Medical Sciences in Brazil; Kabelo Maleke of Project Boithato at the Anova Health Institute in rural South Africa; and Adi Nugroho of the GWL-INA Network in Jakarta, Indonesia.

## **Public Information**

amfAR disseminates information on important HIV-related research, treatment, prevention, and policy issues for diverse audiences, increasing awareness and knowledge of the pandemic. amfAR publishes a wide range of educational materials, maintains an informative website, and engages respected public figures, scientists, and policymakers in communicating the need for continued research on HIV/AIDS.

#### **Educational Materials**

amfAR produces a range of periodicals in both print and electronic formats, including its newsletter *Innovations*, published twice a year and distributed to more than 40,000 people; the *TREAT Asia Report*, an email newsletter distributed six times a year to more than 4,000 readers in the international health community; and a monthly e-mail newsletter distributed to nearly 70,000 people. The Foundation's websites—www.amfar.org and www.curecountdown.org—feature news, interviews, and original articles covering HIV research, policy, the global epidemic, and amfAR programs and activities. The websites attract a combined average of 45,000 visitors per month. amfAR also creates and distributes reports, press releases, and updates on major HIV/AIDS issues and conducts public service advertising campaigns that have been instrumental in educating policymakers, healthcare professionals, people living with HIV/AIDS, and the public.

## **Epic Voices**

In June 2017, amfAR launched Epic Voices, an online video series that aims to reenergize the response to HIV among millennial and LGBTQ communities. The goals of the campaign are to renew awareness of the persistent threat of HIV, underscore the urgent need to support HIV research, and support amfAR's leadership in the search for a cure. For the series, amfAR has spoken with HIV activists across the country, asking them to share their unique journeys, their insights on living with HIV, and the bold steps they have taken in the fight against the epidemic.

## **Social Media**

amfAR continues to expand its presence in the social media arena, reaching large numbers of people, including a younger demographic that is often less educated about HIV and the AIDS epidemic. The Foundation regularly adds content to its Facebook page, live tweets

from events, and posts images on Instagram from fundraising and program events. amfAR has 74,000 likes on Facebook, 43,000 Twitter followers, and more than 130,000 Instagram followers.

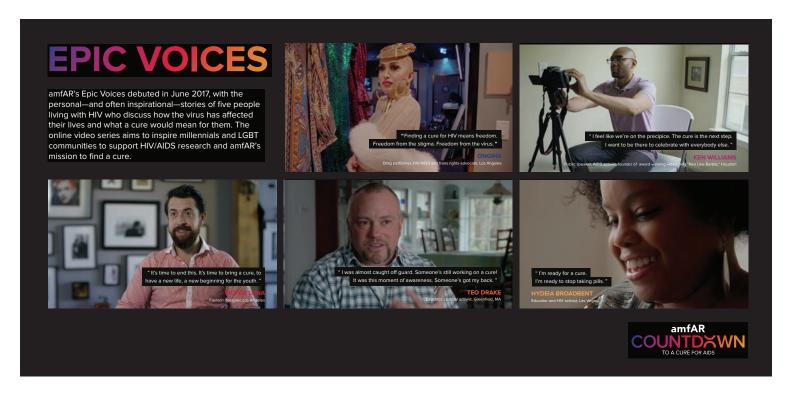
## **Media Outreach**

In FY2017, amfAR continued to work closely with the media to raise the profile of HIV/AIDS, both domestically and internationally, and to help ensure the accuracy of HIV-related press coverage. Articles and reports involving amfAR—many of which included interviews with staff—were carried in numerous media outlets, including *The New York Times, The Washington Post*, the *Chicago Tribune, The Hill, Politico*, NBC News, CBS News, CNBC, *U.S. News & World Report*, Reuters, *Ebony*, and *HuffPost*.

## **Celebrity Support**

amfAR's public awareness efforts are greatly enhanced by the committed support of public figures who lend their voices and donate their time, talents, and resources to help sustain the Foundation's mission. Support of amfAR by prominent public figures began with the late Dame Elizabeth Taylor, amfAR's Founding International Chairman, and many have followed in her footsteps.

Other celebrity supporters include amfAR Ambassadors Milla Jovovich, Michelle Yeoh, Cheyenne Jackson, and Liza Minnelli, as well as Charlize Theron, Adrien Brody, Jessica Chastain, Matt Bomer, Dita Von Teese, Gwyneth Paltrow, Diana Ross, Chiara Ferragni, Diane Kruger, Iman, Katie Holmes, Uma Thurman, Kate Moss, Zac Posen, Zoe Saldana, Tobey Maguire, Dame Helen Mirren, Lea Michele, Michelle Rodriguez, Will Smith, Nicole Kidman, Naomi Campbell, Heidi Klum, Jon Hamm, Eva Longoria, Leonardo DiCaprio, Robert De Niro, Nicki Minaj, Andrea Bocelli, Dean and Dan Caten, Chris Tucker, Jennifer Garner, Scarlett Johansson, Donatella Versace, Victoria Justice, and Carine Roitfeld.



# 2017 RESEARCH GRANTS, FELLOWSHIPS AND AWARDS

All projects listed below were awarded funding during the period October 1, 2016, through September 30, 2017.

## amfAR RESEARCH CONSORTIUM ON HIV ERADICATION (ARCHE)

## Allogeneic stem cell transplant in HIV-1-Infected Individuals (second renewal)

Annemarie Wensing, MD, PhD University Medical Center Utrecht Utrecht, The Netherlands Javier Martinez-Picado, PhD AIDS Research Institute, irsiCaixa Barcelona, Spain \$997,518

#### ARCHE: GENE THERAPY TO CURE HIV

## Vector-mediated *in vivo* targeting of HIV reservoir cells for provirus elimination

Hildegard Büning, Dr. rer. nat. (PhD) Hannover Medical School Hannover, Germany \$386.578

# Subcutaneous administration of DARPin-modified adeno-associated virus vectors for selective targeting of CD4+ T cells

Keith Jerome, MD, PhD University of Washington Seattle, WA \$399,955

## Engineering blood cells to produce broadly neutralizing anti-HIV antibodies

Hans-Peter Kiem, MD, FACP Fred Hutchinson Cancer Research Center Seattle, WA USA \$200,000

## Optimized efficacy and persistence of engineered HIV-specific cellular immunity

Scott Kitchen, PhD University of California, Los Angeles Los Angeles, CA \$400,000

## LentiStim: mass production of lentiviral vectors for *in vivo* gene delivery

Yasuhiro Takeuchi, PhD University College London London, United Kingdom \$360,034

## Targeting of nucleic acid therapeutics to cure HIV

Drew Weissman, MD, PhD Trustees of the University of Pennsylvania Philadelphia, PA \$400,000

#### CAR T cells dually encoding alpha-chainanchored and soluble broadly neutralizaing antibodies to HIV

Richard T. Wyatt, PhD International AIDS Vaccine Initiative New York, NY \$199.362

## INVESTMENT GRANTS: BRINGING BIOENGINEERS TO CURE HIV – PHASE I

# Single-cell transcriptomic analysis of HIV reservoirs before and after systemic interleukin-2 (IL-2) therapy

Eli Boritz, MD, PhD Foundation for the National Institutes of Health Bethesda, MD \$200,000

## Single cell levitation to Identify, isolate and characterize HIV reservoirs

Timothy Henrich, MD University of California, San Francisco San Francisco, CA \$200,000

## Targeted nanocarriers to accelerate depletion of the HIV reservoir

Keith Jerome, MD, PhD University of Washington Seattle, WA \$200,000

## Targeted inactivation of integrated HIV through host cell DNA repair pathways

Priti Kumar, PhD Yale University New Haven, CT \$200,000

## Bifunctional nucleases programmed by HIV-1 mRNA for reservoir eradication

Jeremy Luban, MD University of Massachusetts Medical School Worcester, MA \$200.000

## Deciphering latency-associated sugar-code to detect and eliminate latent reservoir

Hui Zhang, PhD Johns Hopkins University Baltimore, MD \$199,444

## INNOVATION GRANTS: EXPLORING THE POTENTIAL FOR HIV ERADICATION

## Ixazomib to reduce HIV reservoir size

Andrew Badley, MD Mayo Clinic College of Medicine Rochester, MN \$200,000

## Creation of CCR5 knockout Mauritian cynomolgus macaques for stem cell transplants

Benjamin Burwitz, PhD Oregon Health and Science University Portland, OR \$199,948

## Disabling HIV provirus by promoting chromatinization

Andrew Henderson, PhD Boston University School of Medicine Boston, MA \$200.000

## HLA-E-specific TCR-like antibodies for the universal targeting of persistent HIV reservoirs

Brad Jones, PhD The George Washington University Washington, DC \$199.998

#### Permanent silencing of HIV-1 expression through the polycomb repressor complex 2 epigenetic pathway

Fabio Romerio, PhD University of Maryland at Baltimore Baltimore, MD \$199,999

## Anti-proliferative therapy for eradication of the HIV reservoir

Joshua Schiffer, MD, MSc Fred Hutchinson Cancer Research Center Seattle, WA \$200.000

## MATHILDE KRIM FELLOWSHIPS IN BASIC BIOMEDICAL RESEARCH

## Impact of pre-adaptation on viral evolution and virus control in the newly infected individual

Daniela Monaco, PhD Emory University Atlanta, GA \$150.000

## Exploiting dynamic conformational states of HIV-1 Env as targets for novel inhibitors

Gabriel Ozorowski, PhD The Scripps Research Institute La Jolla, CA \$150,000

## Harnessing NK cell responses to eliminate HIV-1-infected cells

Jonathan Richard, PhD Université de Montréal, Centre de Recherche du CHUM Montreal, Canada \$150,000

## PHASE II MATHILDE KRIM FELLOWSHIP GRANT

## Structural analyses of antibody-virus complexes to guide immunogen design

Daniela Fera, PhD Swarthmore College Swarthmore, PA \$80,000

## **MEETINGS AND CONFERENCES**

## Advanced Course on HIV Pathogenesis, XII Edition

Esper Kallás, MD, PhD Fundação Faculdade de Medicina São Paulo, Brazil \$15,000

## 2017 TREAT ASIA GRANTS AND AWARDS

All projects listed below were awarded funding during the period October 1, 2016, through September 30, 2017.

Supported by National Institutes of Health cooperative agreement number U01Al069907 with funds from the National Institute of Allergy and Infectious Diseases, the Eunice Kennedy Shriver National Institute of Child Health and Human Development, the National Cancer Institute, the National Institute of Mental Health, and the National Institute on Drug Abuse

<sup>2</sup>Supported by National Institutes of Health grant number R01HD073972 funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development

<sup>3</sup>Supported by National Institutes of Health grant number R21HD089859 funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development

<sup>4</sup>Supported with funds provided by ViiV Healthcare

<sup>5</sup>Supported with funds provided by LIFE+

<sup>6</sup>Supported with fund provided by the Open Society Foundations

## **AUSTRALIA**

## University of New South Wales

Sydney Matthew G. Law, PhD leDEA Asia-Pacific Research Collaboration: Cancer Studies \$77,2771

IeDEA Asia-Pacific Research Collaboration: TREAT Asia HIV Observational Database & Australia HIV Observational Database \$299.701

IeDEA Asia-Pacific Research Collaboration: TREAT Asia Pediatric HIV Observational Database \$207.5831

## AUSTRALIA HIV OBSERVATIONAL DATABASE (AHOD) SITES

#### O'Brien Street Practice

Adelaide William Donohue, MBBS \$1,800

## Sexual Health and HIV Service In Metro North Brisbane

Diane Rowling, MBBS, FAFPHM, RACP, FAChSHM \$3,825

### Cairns Sexual Health Service

Cairns Darren Russell, MD \$7,500<sup>1</sup>

#### RPA Sexual Health Clinic

Camperdown David Templeton, PhD \$5,550

#### Melbourne Sexual Health Centre

Carlton

Tim Read, MBBS, DipVen, FRACGP, FAChSHM, EpiDip \$6,2251

#### Monash Health - Clayton

Clayton

lan Woolley, MBBS, FRACP \$7.5001

#### D.A. Ellis Pty Ltd

Coffs Harbour David Ellis, MBBS \$675

## East Sydney Doctors

Darlinghurst

David Baker, MB, ChB, Dip Med (Sexual Health), DCH \$6.675<sup>1</sup>

## St. Vincent's Hospital Sydney Limited ABN 77 054 038 872

Darlinghurst David A. Cooper, MD \$7,500<sup>1</sup>

#### Taylor Square Private Clinic

Darlinghurst Robert Finlayson, MBBS (Syd), Di \$6.975<sup>1</sup>

#### Northern Territory Dept of Health & Community Services, Sexual Health & Blood Borne Virus Program

Darwin

Manoji Gunathilake, MBBS, MD, FAChSHM \$1,800

## Gladstone Road Medical Centre

Highgate Hill David Orth, MBBS, DIP Ven \$6,5251

#### Nepean Blue Mountains Local Health District, Blue Mountains Sexual Health and HIV Clinic

Katoomba

Eva Jackson, MBBS, FAChSHM \$2 025

## Nepean Blue Mountains Local Health District,

Nepean Sexual Health Clinic

Kingswood

Eva Jackson, MBBS, FAChSHM \$2.100

## Sexual Health and AIDS Services (SHAIDS)

Lismore

David Smith, MBBS, DipVen, FAChSHM, GrapDip, BA \$7.5001

#### Victorian HIV Service, Infectious Diseases Department, The Alfred Hospital

Melbourne

Jennifer Hoy, MBBS \$7,5001

#### Sunshine Coast Hospital and Health Service

Nambour West David Sowden, MBBS \$7.5001

## Northside Clinic (Vic) Pty Ltd

North Fitzroy Richard Moore, MBBS \$7,5001

## Royal Perth Hospital

Perth

David Nolan, MBBS, FRACP, PhD \$6.8251

#### Prahran Market Clinic Ptv Ltd

Prahran

Norman Roth, MBBS, FAChSHM \$6.8251

## Holdsworth House Medical Practice

Sydney Mark Bloch, MD \$7.5001

#### Sydney Sexual Health Centre, Sydney Hospital

Sydney

Rick Varma, MBBS, MRCP \$6.6001

## Clinic 468, HNE Sexual Health, Hunter New England Local Health District

Tamworth Nathan Ryder, MD \$1.575

## Illawarra Shoalhaven Local Health District

Warrawong Katherine Brown, MD \$1.800

## CAMBODIA

# National Center for HIV/AIDS, Dermatology & STDS / Cambodia National Institute of Public Health

Phnom Penh Ly Penh Sun, MD, MSc TAHOD Low Intensity Transfer (TAHOD LITE)

TREAT Asia HIV Observational Database (TAHOD)

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$25,000

## **CHINA**

#### Beijing Ditan Hospital

Beijing

Fujie Žhang, MD, MSPH, PhD

TREAT Asia HIV Observational Database (TAHOD) \$18,5001

#### Queen Elizabeth Hospital

Hong Kong Man Po Lee, MBBS TAHOD Low Intensity Transfer (TAHOD LITE) \$6.5001

Man Po Lee, MBBS TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$23,000<sup>1</sup>

#### INDIA

#### Chennai Antiviral Research and Treatment Clinical Research Site (CART CRS), YRG CARE Medical Centre. VHS

Chennai

Naglingeswaran Kumarasamy, MD, MBBS, PhD TAHOD Low Intensity Transfer (TAHOD LITE) \$5,000

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$21.8001

TREAT Asia Pediatric HIV Observational Database (TApHOD) Site \$7,500

#### B.J. Medical College

Pune

Aarti Kinikar, MD, DCH, DNB, MRCP TREAT Asia Pediatric HIV Observational Database (TApHOD) Site \$20,0001

Shahshikala Sangle TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,5501

#### B.J. Medical College-Johns Hopkins University

Pune

Vidya Mave, MD, MPH Epidemiology of HIV/AIDS and associated comorbidities in a public antiretroviral treatment (ART) clinic in Pune, India \$212,5511

#### Institute of Infectious Diseases

Pune

Sanjay Pujari, MD, AAHIVS, MBBS TAHOD Low Intensity Transfer (TAHOD LITE) \$7,992

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,4001

### **INDONESIA**

## Sanglah Hospital, Udayana University School of Medicine

Denpasar, Bali Tuti Parwati Merati, MD, PhD TAHOD Low Intensity Transfer (TAHOD LITE) \$6,5001

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,5501

Ketut Dewi Kumara Wati, MD TREAT Asia Pediatric HIV Observational Database (TApHOD) \$7,500

#### Cipto Mangunkusumo General Hospital

Nia Kurniati, MD TREAT Asia Pediatric HIV Observational Database (TApHOD) \$7,5001

Evy Yunihastuti, MD, PhD TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,8001

#### JAPAN

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Junko Tanuma, MD, PhD TREAT Asia HIV Observational Database (TAHOD) \$16,0001

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#### Penang Hospital

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Revathy Nallusamy, MBBS

TREAT Asia Pediatric HIV Observational Database (TApHOD)

\$2,500

#### Hospital Raja Perempuan Zainab II

Kota Bharu

Nik Khairulddin Nik Yusoff, MD

TREAT Asia Pediatric HIV Observational Database (TApHOD)

\$7.500

#### Hospital Likas

Kota Kinabalu

Fong Siew Moy, MBBS

TREAT Asia Pediatric HIV Observational Database (TApHOD)

\$7,500

## Pediatric Institute, Hospital Kuala Lumpur

Kuala Lumpur

Thahira Mohamed, MBBS

TREAT Asia Pediatric HIV Observational Database (TApHOD)

\$7,500

## University of Malaya

Kuala Lumpur

Adeeba Kamarulzaman, MBBS, FRACP, FAMM, FASc

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,7001

#### Sungai Buloh Hospital

Sungai Buloh

Yasmin Mohamed Gani, MD Study of Transitioning Asian Youth (STAY) \$6.9864

Benedict Lim Heng Sim, MBBS, MRCP TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$16,000<sup>1</sup>

#### NEPAL

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Kathmandu Himal Gauchan Hepatitis C capacity development for community groups

\$8,3996

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Oon Tek Ng, MBBS, MRCP, MMed, MPH TAHOD Low Intensity Transfer (TAHOD LITE) \$5.0001

TREAT Asia HIV Observational Database (TAHOD) \$18,0001

## SOUTH AFRICA

## University of Cape Town

Mowbray

Mary-Ann Davies, MBChB, MMed., FCPHM Global fRAmework for Data Collection Used for Adolescent HIV Transition Evaluation (GRADUATE) \$102,1053 (Year 1) \$91,4773 (Year 2)

#### **SOUTH KOREA**

## Yonsei University College of Medicine

Seoul

Jun Yong Choi, MD, PhD

TAHOD Low Intensity Transfer (TAHOD LITE) \$5,0001

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$18.2001

#### **TAIWAN**

#### Taipei Veterans General Hospital

Taipei City Wing-Wai Wong, MD TAHOD Low Intensity Transfer (TAHOD LITE)

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$26,0001

## **THAILAND**

#### Chulalongkorn University

Bangkok

Thanyawee Puthanakit, MD Neurodevelopmental and neurobehavioral

outcomes in HIV-exposed children \$10,1741 (Year 1) \$13,8831 (Year 2)

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$15.0001

#### HIV-NAT / Thai Red Cross AIDS Research Centre

Bangkok

Anchalee Avihingsanon, MD, PhD TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$23,2001

Sivaporn Gatechompol

Human Papillomavirus Infection in Perinatally HIVinfected Adolescents in Asia \$15,082<sup>2</sup>

Watsamon Jantarabenjakul, MD Treatment switch from efavirenz to rilpivirine in virologically-suppressed HIV-infected Thai adolescents \$2,355

Stephen Kerr, PhD Study of Transitioning Asian Youth (STAY) Statistical Analysis Center

\$10,0461

Understanding adherence, stigma, and behavioral risk factors of adolescents in TApHOD using ACASI (data analysis center) \$4,0001

Nittaya Phanuphak, MD, PhD Human Papillomavirus Infection in Perinatally HIVinfected Adolescents in Asia (central lab & data management) \$110.962<sup>2</sup>

Amphetamine-type stimulant use, HIV incidence, and ART adherence among Thai MSM and transgender women \$32,670¹ (Year 1) \$75,601¹ (Year 2)

Anal HPV and risk for anal high-grade squamous intraepithelial lesion among Thai MSM with acute HIV infection

\$30,1791 (Year 1) \$77,3591 (Year 2)

#### Mahidol University by Faculty of Medicine Siriraj Hospital

Banakok

Kulkanya Chokephaibulkit, MD

Human Papillomavirus Infection in Perinatally HIVinfected Adolescents in Asia

\$11,6582

Study of Transitioning Asian Youth (STAY) \$12,4541

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$15,0001

Treatment switch from efavirenz to rilpivirine in virologically-suppressed HIV-infected Thai adolescents \$7.961

#### Queen Sirikit National Institute of Child Health

Banakok

Piyarat Suntarattiwong, MD

Treatment switch from efavirenz to rilpivirine in virologically-suppressed HIV-infected Thai adolescents \$6.260

#### Ramathibodi Hospital, Mahidol University

Banakok

Sasisopin Kiertiburanakul, MD, MHS

TREAT Asia HIV Observational Database (TAHOD) including NCD Data

#### Chiang Mai University - Research Institute for Health Sciences

Chiang Mai

Romanee Chaiwarith, MD, MHS TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$23.900

Tavitiya Sudjaritruk, MD, ScM

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$15,0001

## Chiangrai Prachanukroh Hospital

Chiang Rai

Rawiwan Hansudewechakul, MD Human Papillomavirus Infection in Perinatally HIV-infected Adolescents in Asia \$11.1022

Study of Transitioning Asian Youth (STAY) \$10,1724

TREAT Asia Pediatric HIV Observational Database (DOHaAT)

\$15,000<sup>1</sup>

Suwimon Khusuwan TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,500

#### Srinagarind Hospital, Khon Kaen University

Khon Kaen

Pagakrong Lumbiganon, MD Study of Transitioning Asian Youth (STAY) \$11.5994

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$7,500

#### Purple Haze Company Limited

Muang

Tarandeep Anand

The impact of online interventions on the HIV prevention/treatment cascade among MSM and . TG Individuals

\$30,0281 (Year 2) \$30,0001 (Year 3)

#### USA

#### Massachusetts General Hospital

Boston, MA

Andrea Ciaranello, MD, MPH

Estimating the magnitude of the pediatric and adolescent HIV epidemic in Thailand \$45.0005

#### **VIETNAM**

#### Bach Mai Hospital

Hanoi

Do Duy Cuong, MD, PhD TAHOD Low Intensity Transfer (TAHOD LITE)

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,6701

Nguyen Van Lam, MD, MSc Study of Transitioning Asian Youth (STAY) \$8.8034

TREAT Asia Pediatric HIV Observational Database (TApHOD) \$20,0001

Nguyen Van Kinh, MD, PhD TAHOD Low Intensity Transfer (TAHOD LITE) \$6,5001

TREAT Asia HIV Observational Database (TAHOD) including NCD Data \$22,560<sup>1</sup>

## Children's Hospital 1

Ho Chi Minh City

Tran Ngoc Hanh Dan, MD, MSc Human Papillomavirus Infection in Perinatally HIV-infected Adolescents in Asia \$4,8022

Truong Huu Khanh, MD TREAT Asia Pediatric HIV Observational Database (DOHqAT) \$25,0001

Do Chau Viet, MD TREAT Asia Pediatric HIV Observational Database (DOHqAT) \$20,000

## Hung Vuong Hospital

Ho Chi Minh City

Dang Le Dung Hanh, MD (OB&GYN), MA Human Papillomavirus Infection in Perinatally HIV-infected Adolescents in Asia \$4.6492

## 2017 GMT INITIATIVE **GRANTS AND AWARDS**

All projects listed below were awarded amfAR funding during the period October 1, 2016, through September 30, 2017.

#### amfAR HIV SCHOLARS AWARDS

Structural intervention models for HIV prevention among young gay men and transgender individuals in central São Paulo

Daniel Barros Santa Casa School of Medical Sciences São Paulo, Brazil \$25,000

#### Pilot study on HIV among men who have sex with men in Belize (supplement)

Erika Castellanos Collaborative Network of Persons Living with HIV (C-NET+) Belize City, Belize

\$1,800

## Project Power-Up – Developing a peer support group for HIV-positive GMT in Mpumalanga, South Africa

Kabelo Maleke Anova Health Institute Cape Town, South Africa \$25,000; Supplement: \$862

#### Developing 'GAP,' a smartphone application for daily self-monitoring and self-management for HIV-positive MSM

Adi Nuaroho GWI-INA Jakarta, Indonesia \$25,000

#### HIV care access and retention in Paraguay: A comparative analysis of the country's first LGBT clinic

Antonio Spagnolo, MD Fundación Vencer Asunción, Paraguay \$23,000

# 2017 PUBLIC POLICY AWARDS

The projects listed below were awarded amfAR funding during the period October 1, 2016, through September 30, 2017.

\*Funded with support from the Ford Foundation

## Building power in prevention advocacy among transgender African advocates

Emily Bass AIDS Vaccine Advocacy Coalition (AVAC) New York, NY \$49,999

#### Scrutinizing PEPFAR Investments in South Africa

Matthew Kavanagh, PhD Georgetown University Washington, DC \$47,928

## Qualitative evaluation of retention at the Moore Clinic

Catherine Maulsby, PhD Johns Hopkins University Baltimore, MD \$99,942\*

# 2017 COMMUNITY OUTREACH AWARDS

The projects listed below were awarded amfAR funding during the period October 1, 2016, through September 30, 2017.

## Dr. Mathilde Krim/amfAR Professorship of Global Health Fund

Columbia University New York, NY \$500,000

## Andrea Bocelli Foundation—Health Care Needs of People Living with HIV in Haiti

of People Living with HIV in Haiti Charities Aid Foundation of America (CAF America) Alexandria, VA \$224,260

## Charlize Theron Africa Outreach Project

New Venture Fund Washington, DC \$500,000

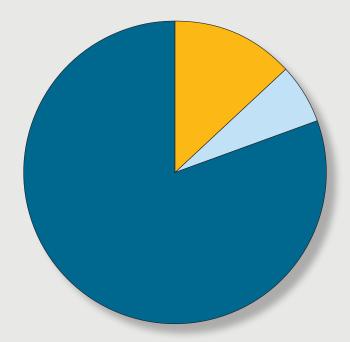


**Financial Highlights**For the year ended September 30, 2017

Public Support and Revenue	
Public support	\$ 6,281,507
Special events	18,185,017
Planned giving	3,157,413
Government funding	11,578,195
Investment income and other revenue	2,355,134
Total public support and revenue	\$ 41,557,266
Expenses	
Research	\$ 22,716,644
TREAT Asia	4,581,509
GMT Initiative	1,272,304
Public Policy	2,202,676
Public Information	4,230,300
Total program services	\$ 35,003,433
Fundraising	5,779,044
Management and general	2,683,723
Total supporting services	\$ 8,462,767
Total expenses	\$ 43,466,200
Change in not accete	(1.000.004)
Change in net assets  Net assets, beginning of year	(1,908,934) 61,639,180
Net assets, beginning or year	01,039,100
Net assets, end of year	\$ 59,730,246
Statement of Financial Position	
Assets	
Cash and investments	\$ 63,694,070
Pledges and receivables, net	8,619,990
Prepaid expenses and other assets	4,833,160
Furniture, equipment, and leasehold improvements, net	3,074,500
Total Assets	\$ 80,221,720
Liabilities	
Accounts payable and accrued expenses	\$ 3,028,826
Grants and fellowships payable, net	3,445,162
Deferred support and refundable advances	11,985,013
Other long-term liabilities	2,032,473
Total liabilities	\$ 20,491,474
Total net assets	59,730,246
Total liabilities and net assets	\$ 80,221,720

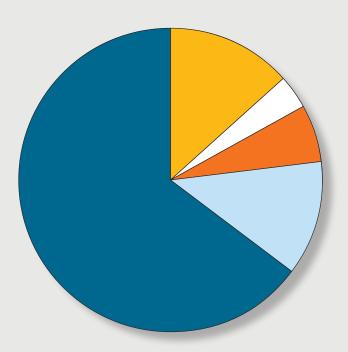
## **Expenses**

Total	\$ 43,466,200
Program	35,003,433
Management and general	2,683,723
Fundraising	\$ 5,779,044



## **Program Expenses**

Research	\$	22,716,644
TREAT Asia		4,581,509
GMT Initiative		1,272,304
Public Policy		2,202,676
Public Information		4,230,300
Total	\$	35.003.433



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